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APPLICATION NO	,	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/807,760 03/24/2004		James Richard Fitzell JR.	074868.86013	4277	
24335	7590	09/23/2005		EXAM	INER
WARNER		ROSS & JUDD LLF	•	LEE, EDN	MUND H
111 LYON				ART UNIT	PAPER NUMBER
GRAND R	GRAND RAPIDS, MI 49503-2487			1732	
				DATE MAIL ED: 09/23/200	· 5

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)
		10/807,760	FITZELL, JAMES RICHARD
	Office Action Summary	Examiner	Art Unit
		EDMUND H. LEE	1732
Period f	The MAILING DATE of this communication a or Reply	ppears on the cover sheet w	ith the correspondence address
WHI - Ext afte - If N - Fai Any	HORTENED STATUTORY PERIOD FOR REF CHEVER IS LONGER, FROM THE MAILING ensions of time may be available under the provisions of 37 CFR or SIX (6) MONTHS from the mailing date of this communication. O period for reply is specified above, the maximum statutory period ure to reply within the set or extended period for reply will, by stat or reply received by the Office later than three months after the man ned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNI 1.136(a). In no event, however, may a od will apply and will expire SIX (6) MOI ute, cause the application to become Al	CATION. reply be timely filed NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).
Status			
1)[\implies	Responsive to communication(s) filed on 24	March 2004	
لط(ا □(2a		his action is non-final.	
3)□			ters, prosecution as to the merits is
ال	closed in accordance with the practice unde	· · · · · · · · · · · · · · · · · · ·	
	·	. Ex parto quayro, 1000 o.	, 100 0.0. 210.
Disposi	tion of Claims		
4)⊠	Claim(s) 1-4 is/are pending in the application	n.	
	4a) Of the above claim(s) is/are withd	rawn from consideration.	
5)	Claim(s) is/are allowed.		
6)🛛	Claim(s) <u>1-4</u> is/are rejected.		
7)	. '/		
8)[Claim(s) are subject to restriction and	I/or election requirement.	•
Applica	tion Papers		
9)[The specification is objected to by the Exami	ner.	
10)	The drawing(s) filed on is/are: a) a	ccepted or b) objected to	by the Examiner.
	Applicant may not request that any objection to the	ne drawing(s) be held in abeya	nce. See 37 CFR 1.85(a).
	Replacement drawing sheet(s) including the corre	ection is required if the drawing	g(s) is objected to. See 37 CFR 1.121(d).
11)	The oath or declaration is objected to by the	Examiner. Note the attache	d Office Action or form PTO-152.
Priority	under 35 U.S.C. § 119		
-	Acknowledgment is made of a claim for forei) All b) Some * c) None of:	gn priority under 35 U.S.C.	§ 119(a)-(d) or (f).
	1. Certified copies of the priority docume	ents have been received.	
	2. Certified copies of the priority docume	ents have been received in A	Application No
	3. Copies of the certified copies of the pr	riority documents have beer	received in this National Stage
	application from the International Bure	eau (PCT Rule 17.2(a)).	
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Attac	'nΜ	en	ųs	J

1)	K	Notice of	References	Cited ((PTO-892)	

2) Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____

+) [Interview Summary (P10-413)
	Paper No(s)/Mail Date
51 🗆	Notice of Informal Patent Applic

5) Notice of Informal Patent Application (PTO-152)
6) Other: _____.



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DETAILED ACTION

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1-3 are rejected under 35 U.S.C. 102(b) as being anticipated by JP 60-33799A. JP 60-33799A teaches the claimed process as evidenced by the abstract and fig 4.
- 3. Claims 1 and 3 are rejected under 35 U.S.C. 102(b) as being anticipated by JP 4-033827. JP 4-033827 teaches the claimed process as evidenced by the abstract and figs 1-2.
- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over JP 60-33799A. the above teachings of JP 60-33799A are incorporated hereinafter. JP 60-33799A, however, does not teach removing the material by reversing the vacuum and blowing a gas against the material. It is well-known in the vacuum-forming art to remove or eject an article by blowing a gas against the article. Thus, it would have been obvious to one of ordinary skill in the art at the time the invention was made to

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remove the material of JP 60-33799A by blowing a gas against the material in order to facilitate its removal.

- 6. Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over JP 4-033827 in view of JP 60-33799A. The above teachings of JP 4-033827 are incorporated hereinafter. JP 4-033827, however, does not teach quenching at a substantially constant temperature. JP 60-33799A teaches a vacuum-forming process wherein the material is quenched at a constant temperature (see English abstract). JP 4-033827 and JP 60-33799A are combinable because they are analogous with respect to quenching a vacuum formed article. Thus, it would have been obvious to one of ordinary skill in the art at the time the invention was made to maintain the quenching of JP 4-033827 at a constant temperature as taught by JP 60-33799A in order to ensure uniform cooling.
- 7. Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over JP 4-033827. The above teachings of JP 4-033827 are incorporated hereinafter. JP 4-033827, however, does not teach removing the material by reversing the vacuum and blowing a gas against the material. It is well-known in the vacuum-forming art to remove or eject an article by blowing a gas against the article. Thus, it would have been obvious to one of ordinary skill in the art at the time the invention was made to remove the material of JP 4-033827 by blowing a gas against the material in order to facilitate its removal.
- 8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to EDMUND H. LEE whose telephone number is

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571.272.1204. The examiner can normally be reached on MONDAY-THURSDAY FROM 9AM-4PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Colaianni can be reached on 571.272.1196. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

EDMUND H. LEE Primary Examiner Art Unit 1732

EHL